

Model Change Bulletin (MCB) 7 - AERMET version 16216 changes by change type.

Listed with each change are the affected AERMET stages.

BUG FIXES

Item	Modification	Stage
1	Modified subroutines MPFIN and SUBST to set RANDOM as the default selection for the WIND_DIR variable under the METHOD option in Stage 3 for NWS wind directions.	3
2	Modified subroutine UCALST to remove the code for adjusting USTAR if CHEK .GT. 1 for the ADJ_U* option. Also incorporated a lower limit of USTCR for USTAR based on Equation 26 of Qian and Venkatram (BLM, 2011).	3
3	Modified subroutine BULKRI to set a lower limit of 1.0m for the Monin-Obukhov length (L) as one of the criteria for exiting the DO WHILE loop to avoid NaN's for USTAR in the surface output file for the ADU_U* option. Subroutine BULKRI was also modified to use BETAM = 5.0 for the ADJ_U* option instead of 4.7.	3
4	Modified subroutine MPMET to correct the FORMAT statement for including the 'BULKRN/MMIF' string in the surface file header record.	3

MISCELLANEOUS

Item	Modification	Stage
1	Modified several subroutines with minor or cosmetic changes to the documentation of user options and error handling and reporting.	All